

## CLAIMS

What is claimed is:

- 1 1. A method for processing data received from a communications channel
- 2 comprising the computer-implemented steps of:
- 3 receiving, from the communications channel, received data that is based upon
- 4 both modulated data and distortion introduced by the communications
- 5 channel, wherein the modulated data is the result of original data
- 6 modulated onto one or more carriers;
- 7 generating sampled data by sampling the received data at a specified rate that
- 8 satisfies specified sampling criteria;
- 9 generating a filtered observation sequence by processing the sampled data;
- 10 generating estimated modulated data by processing the filtered observation
- 11 sequence using a recursive filter; and
- 12 recovering an estimate of the original data by demodulating the estimated
- 13 modulated data.

CANCELLED

A1  
A2